

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

- 1 1 (Currently Amended). An apparatus for the transmission of
2 time-synchronous multi-media data from a sender to a receiver using a IP
3 (Internet Protocol) network, wherein the time-synchronous data is processed
4 and transmitted at the sender as well as the receiver, comprising:
5 a the sender receiving time-synchronous multi-media data;
6 a mechanism connected to said sender for processing the time-
7 synchronous multi-media data for output to said IP network; and
8 a the receiver connected to said IP network for receiving processed
9 time-synchronous multi-media data transmitted over said IP netowrk network;
10 said mechanism comprising:
11 a first processing unit composed of multiple subcomponents, each
12 subcomponent being designed to process the time-synchronous multi-media
13 data in a specific and different way, a plurality of said multiple
14 subcomponents of said first processng unit being selected from the group
15 consisiting consisting of a codec, a filter and an IP packetizer;
16 a second processing unit parallel to the first processing unit, said
17 second processing unit being composed of multiple subcomponents, each
18 subcomponent being designed to process the time-synchronous multimedia
19 data in a specific and different way, a plurality of said multiple
20 subcomponents of said second processing unit being selected from the group
21 consisiting consisting of a codec, a filter and an IP packetizer, wherein the
22 subcomponents of the second processing unit are setup and adapted based on
23 changed sender data rate or network characteristics by configuring attribute
24 parameters of the subcomponents, wherein data processing and transmission
25 of the time-synchronous mulit-media data is continued within the first

26 processing unit during the setup and adaptation of the second processing unit;
27 and

28 a switch selecting between the first and second processing units, the
29 processing and transmission of the time-synchronous multi-media data
30 initially being performed by the first processing unit and, after switching by
31 the switch, the processing and transmission of the time-synchronous multi-
32 media data is performed using the second processing unit such that the
33 processing and transmission of the time-synchronous multi-media data is
34 performed within the second processing unit, the output of said switch being
35 connected to said IP network.

1 2 (Previously Presented). The apparatus according to claim 1, wherein the
2 setup and adaptation of the second processing is started using a trigger event.

1 3 (Previously Presented). The apparatus according to claim 1, wherein the
2 switching is performed after completion of the setup and adaptation of the
3 second processing unit.

1 4 (Previously Presented). The apparatus according to claim 1, wherein the
2 switching is performed after reaching a certain switching condition.

1 5 (Previously Presented). The apparatus according to claim 4, wherein the
2 certain switching condition is whether at least one given parameter reaches at
3 a predetermined value.

1 6 (Previously Presented). The apparatus according to claim 1, wherein the
2 time-synchronous multi-media data is processed in the first processing unit
3 using a plurality of said multiple subcomponents.

- 1 7 (Previously Presented). The apparatus according to claim 6, wherein the
2 subcomponents include at least one of a codec, a filter, a packetizer, and a
3 memory buffer.

- 1 8 (Currently Amended). The apparatus according to claim 1, wherein the time-
2 synchronous multi-media data is processed in the second processing unit using
3 a plurality of said multiple subcomponents.

- 1 9 (Previously Presented). The apparatus according to claim 8, wherein the
2 subcomponents include at least one of a codec, a filter, a packetizer, and a
3 memory buffer.

- 1 10 (Previously Presented). The apparatus according to claim 8, wherein the
2 subcomponents are connected during setup.

- 1 11 (Previously Presented). The apparatus according to claim 1, wherein the
2 first and second processing unit is initialized after setup.

- 1 12 (Previously Presented). The apparatus according to claim 8, wherein each
2 of the subcomponents of the second processing unit is adapted to the other
3 subcomponents or changed sender data rate or changed network
4 characteristics.

- 1 13 (Previously Presented). The apparatus according to claim 6, wherein, after
2 switching by the switch, the subcomponents of the first processing unit are
3 de-attached from each other.

- 1 14 (Previously Presented). The apparatus according to claim 13, wherein a
2 plurality of the second processing units is setup and, after switching by the

3 switch, the subcomponents of the first processing unit are included in one of
4 the second processing units.

1 15 (Previously Presented). The apparatus according to claim 6, wherein after
2 switching by the switch, the subcomponents of the first processing unit remain
3 connected.

1 16 (Previously Presented). The apparatus according to claim 1, wherein a
2 plurality of second processing units are setup and adapted based on changed
3 data rate and network characteristics.

1 17 (Previously Presented). The apparatus according to claim 1, wherein an
2 additional processing unit for the processing and transmission of time-
3 synchronous multi-media data is used in sequence with the first and second
4 processing units.

1 18 (Previously Presented). The apparatus according to claim 1, wherein the
2 time-synchronous multi-media data is gathered with one of mechanisms for
3 acquiring visual data and speech data.